

FIGURE 1A

M. abscessus	----- <u>acatgcaagtcg</u>	51
M. avium	-----gacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. bovis	-----gcggcgctgcttaacacatgcaagtcg	
M. chelonae	-----gacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. farcinogen	-----cgaacgctcgcgggcgctgcttaacacatgcaagtcg	
M. fortuitum	-----ggcggcgctgcttaacacatgcaagtcg	
M. gordonae	-----ggcggcgctgcttaacacatgcaagtcg	
M. heckeshornense	-----tgatcctggctcaggacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. intercellulare	----- <u>ttaacacatgcaagtcg</u>	
M. kansasii	-----gcggcgctgcttaacacatgcaagtcg	
M. kubicae	-----gtgcttaacacatgcaagtcg	
M. lentiflavum	-----ggcggcgctgcttaacacatgcaagtcg	
M. mucogenicum	-----gacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. parafinum	-----cgtgcttaacacatgcaagtcg	
M. simiae	-----ggcggcgctgcttaacacatgcaagtcg	
M. szulgai	-----ggcggcgctgcttaacacatgcaagtcg	
M. tuberculosis	-----ggcggcgctgcttaacacatgcaagtcg	

FIGURE 1B

M. abscessus	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatc	111
M. avium	aacgggaaaggcctcttcggaggtactcgagtggcgaacgggtgagtaaacacgtgggcaat	
M. bovis	aacgggaaaggctctcttcggagataactcgagtggcgaacgggtgagtaaacacgtgggtgat	
M. chelonae	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatc	
M. farcinogen	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatct	
M. fortuitum	aacgggaaaggcccttcgggtactcgagtggcgaacgggtgagtaaacacgtgggtgatctg	
M. gordonae	aacggtaaggcccttcgggntacacgagtggcgaacgggtgagtaaacacgtgggtaatct	
M. heckeshornense	aacgggaaaggcccgcttcgggtgggtgctcgagtggcgaacgggtgagtaaacacgtgggtg	
M. intercellulare	aacgggaaagnccccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggcaatc	
M. kansaii	aacgggaaaggctctcttcggagacactcgagtggcgaacgggtgagtaaacacgtgggcaat	
M. kubicae	aacgggaaaggccccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgat	
M. lentoflavum	aacgggaaaggcctcttcggaggtactcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. mucogenicum	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatct	
M. parafinum	aacgggaaaggccccttcgggggtactcgagtggcgaacgggtgagtaaacacgtnggaat	
M. simiae	aacgggaaaggccccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. szulgai	aacgggaaagnccccttcgggntactcgagtggcgaacgggtgagtaaacacgtgggtaatc	
M. tuberculosis	aacgggaaaggctctcttcggagataactcgagtggcgaacgggtgagtaaacacgtgggtgat	

FIGURE 1C

M. abscessus	tgccctgcactctgggataagcctgggaaactgggtctaataccggataggaccacacac 	171
M. avium	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggacctcaag 	
M. bovis	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacggg 	
M. chelonae	tgccctgcactctgggataagcctgggaaactgggtctaataccggataggaccacacac 	
M. farcinogen	gccctgcactttgggataagcctgggaaactgggtctaataccggataggaccacgcgct 	
M. fortuitum	ccctgcactttgggataagcctgggaaactgggtctaataccgaatatgaccgcgcactt 	
M. gordonae	gccctgcacatcgggataagcctgggaaactgggtctaataccgaataggaccacaggac 	
M. heckeshornense	acctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccgcg 	
M. intercellulare	tgccctgcacttcgggataagcctgggaaactgggtctaataccggataggacctttagg 	
M. kansaii	ctgccctgcacaccgggataagcctgggaaactgggtctaataccggataggaccacttg 	
M. kubicae	ctaccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccatgag 	
M. lentoflavum	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccttttg 	
M. mucogenicum	gccctgcactttgggataagcctgggaaactgggtctaataccgaataggaccacgcgct 	
M. parafinum	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacttg 	
M. simiae	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacttg 	
M. szulgai	tgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccccgagg 	
M. tuberculosis	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacggg 	

FIGURE 1D

M. abscessus	ttcatggtgagtggtgcaaagcttttgcggtgtgggatgagcccgcggcctatcagcttg	231
M. avium	acgcatgtcttctggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. bovis	atgcatgtcttctggtngaaagcgcttttagcggtgtgggatgagcccgcggcctatcagc	
M. chelonae	ttcatggtgagtggtgcaaagcttttgcggtgtgggatgagcccgcggcctatcagcttg	
M. farcinogen	tcatggtgtgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttgt	
M. fortuitum	cctggtgtgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttgtt	
M. gordonae	acatgtcctgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttgt	
M. heckeshornense	ccatgcatgtggtgtggtggaaagcggtgtggtagtggtgtgggatgggcccgcggcctat	
M. intercellulare	cgcatgtcttttaggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttg	
M. kansaii	gcgcatgccttgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. kubicae	atgcatgtcttatggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. lentoflavum	gcgcatgccttttggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. mucogenicum	tcatggtgtgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttgt	
M. parafinum	gcgcatgccttgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. simiae	gcgcatgccttgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. szulgai	cgcatgccttgggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttg	
M. tuberculosis	atgcatgtcttctggtggaaagcgcttttagcggtgtgggatgagcccgcggcctatcagc	

FIGURE 1E

<i>M. abscessus</i>	Ttggtggggtaatggcccaccaaggcgacgacgggtagccggcctgagaggggtgaccggc	291
<i>M. avium</i>	ggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
<i>M. bovis</i>	ttggttggtggggtnacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtcc	
<i>M. chelonae</i>	ttggtggggtaatggcccaccaaggcgacgacgggtagccggcctgagaggggtgaccggc	
<i>M. farcinogen</i>	tggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtgaccggcc	
<i>M. fortuitum</i>	ggttggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtgaccggcca	
<i>M. gordonae</i>	tggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccggcc	
<i>M. heckeshornense</i>	cagcttggttggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggt	
<i>M. intercellulare</i>	ttggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccggc	
<i>M. kansaii</i>	ggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
<i>M. kubicae</i>	ggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
<i>M. lentoflavum</i>	ggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
<i>M. mucogenicum</i>	tggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtgaccggcc	
<i>M. parafinum</i>	ggttggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
<i>M. simiae</i>	ggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
<i>M. szulgai</i>	ttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccggc	
<i>M. tuberculosis</i>	ttggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtcc	

FIGURE 1F

M. abscessus	cacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgca	351
M. avium	ccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgc	
M. bovis	ggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatatt	
M. chelonae	cacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgca	
M. farcinogen	acactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgcac	
M. fortuitum	cactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgcaca	
M. gordonae	acactgggactgagatacggcccagactnctacgggaggcagcagtggggaatattgcac	
M. heckeshornense	gtccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaa	
M. intercellulare	cacactgggactgagatacggcccagactnctacgggaggcagcagtggggaatattgca	
M. kansaii	ccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgc	
M. kubicae	ccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgc	
M. lentoflavum	ccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgc	
M. mucogenicum	acactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgcac	
M. parafinum	ccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgc	
M. simiae	ccacactgggactgagatacggcccagactnctacgggaggcagcagtggggaatattgc	
M. szulgai	cacactgggactgagatacggcccagactcntacgggaggcagcagtggggaatattgca	
M. tuberculosis	ggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatatt	

FIGURE 1G

FIGURE 1H

M. abscessus	tacgtgccagcagccgcggtaatacgtagggtccgagcgttggtccggaattactgggcgt 	531
M. avium	agcaccggccaactacgtgccagcagccgcggtaatacgtagggtgcgagcgttggtccgg 	
M. bovis	gaagcaccggccaactacgtgccagcagccgcggtaatacgtagggtgcgagcgttggtcc 	
M. chelonae	tacgtgccagcagccgcggtaatacgtagggtccgagcgttggtccggaattactgggcgt 	
M. farcinogen	acgtgccagcagccgcggtaatacgtagggtccgagcgttggtccggaattactgggcgt 	
M. fortuitum	cgtgccagcagccgcggtaatacgtagggtccgagcgttggtccggaattactgggcgt 	
M. gordonae	caccggccaactacgtgccagcagccgcgntaatacgtagggtgcgagcgttggtccggaa 	
M. heckeshornense	agaagaagcaccggccaactacgtgccagcagccgcggtaatacgtagggtgcaagcgtt 	
M. intercellulare	gcaccggccaactacgtgccagcagccgcggtaatacgtagggtgcgagcgttggtccgga 	
M. kansaii	agcaccggccaactacgtgccagcagccgcgntaatacgtagggtgcgagcgttggtccgg 	
M. kubicae	ctacgtgccagcagccgcggtaatacgtagggtgcgagcgttggtccggaattactgggcg 	
M. lentoflavum	ctacgtgccagcagccgcggtaatacgtagggtgcgagcgttggtccggaattactgggcg 	
M. mucogenicum	acgtgccagcagccgcggtaatacgtagggtgcgagcgttggtccggaattactgggcgt 	
M. parafinum	accggccaactacgtgccagcagccgcggtaatacgtagggtgcgagcgttggtccggaat 	
M. simiae	ctacgtgccagcagccgcggtaatacgtagggtgcgagcgttggtcnggaattactgggcg 	
M. szulgai	gcaccggccaactacgtgccagcagccgcggtaatacgtagggtgcgagcgttggtccgga 	
M. tuberculosis	gaagcaccggccaactacgtgccagcagccgcggtaatacgtagggtgcgagcgttggtcc 	

M. abscessus	aaagagctcgtaggtggtttgtcgcgttggttcgtgaaaactcacagcttaactgtgggcg	591
M. avium	aattactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacggc	
M. bovis	ggaattactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacg	
M. chelonae	aaagagctcgtaggtggtttgtcgcgttggttcgtgaaaactcacagcttaactgtgggcg	
M. farcinogen	aagagctcgtaggtggtttgtcgcgttggttcgtgaaaactcacagcttaactgtgggcgt	
M. fortuitum	agagctcgtaggtggtttgtcgcgttggttcgtgaaaactcacagcttaactgtgggcgtg	
M. gordonae	ttactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacggcgt	
M. heckeshornense	gtccggaattactgggcgtaaagagctcgtaggcggcttggttcgcgttggttcgtggaatgc	
M. intercellulare	attactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacggct	
M. kansaii	aattactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacggc	
M. kubicae	taaagagctcgtaggtggtttgtcgcgttggttcgtgaaaaccgggggcttaaccctcggc	
M. lentoflavum	taaagagctcgtaggtggtttgtcgcgttggttcgtgaaaaccgggggcttaaccctcggc	
M. mucogenicum	aagagctcgtaggtggtttgtcgcgttggttcgtgaaaactcacagcttaactgtgggcgt	
M. parafinum	tactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacggctta	
M. simiae	taaagagctcgtaggtggtttgtcgcgttggttcgtgaaaaccgggggcttaaccctcggc	
M. szulgai	attactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacggct	
M. tuberculosis	ggaattactgggcgtaaagagctcgtaggtggtttgtcgcgttggttcgtgaaatctcacg	

FIGURE 1K

M. abscessus	tgcggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	651
M. avium	ttaactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaatt	
M. bovis	gcttaactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaa	
M. chelonae	tgcgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. farcinogen	gcgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. fortuitum	cgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. gordonae	aactgtgagcgtgcggncgatacgggcagacttgagtactgcaggggagactggaattcc	
M. heckeshornense	cacagcttaactgtggcggtgcgggcgatacgggcaggctggagtgtgcaggggagact	
M. intercellulare	taactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaattc	
M. kansaii	ttaactgtgagcgtgcggncgatacgggcagactagagtactgcaggggagactggaatt	
M. kubicae	gtgcgggcgatacgggcagactggagtactgcaggggagactggaattcctggtgtagcg	
M. lentoflavum	gtgcgggcgatacgggcagactggagtactgcaggggagactggaattcctggtgtagcg	
M. mucogenicum	gcgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. parafinum	actgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaattcct	
M. simiae	gtgcgggcgatacgggcagactggagtactgcaggggagactggaattcctggtgtagcg	
M. szulgai	taactgtgagcgtgcggncgatacgggcagactggagtactgcaggggagactggaattc	
M. tuberculosis	gcttaactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaa	

FIGURE 1L

M. abscessus	tggaatgcgagatatcaggaggaacaccggtggcgaaggcggtctctgggcagtaact	711
M. avium	cctggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggcggtct	
M. bovis	ttcctggtgtagcgggtggaatgcgagatatcaggaggaacaccggtgncgaaggcggt	
M. chelonae	tggaatgcgagatatcaggaggaacaccggtggcgaaggcggtctctgggcagtaact	
M. farcinogen	ggaatgcgagatatcaggaggaacaccggtggcgaaggcggtctctgggcagtaactg	
M. fortuitum	ggaatgcgagatatcaggaggaacaccggtggcgaaggcggtctctgggcagtaactga	
M. gordonae	tggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggcggtctct	
M. heckeshornense	ggaattcctggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggc	
M. intercellulare	ctggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggcggtctc	
M. kansaii	cctggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggcggtct	
M. kubicae	gtggaatgcgagatatcaggaggaacaccggtggcgaaggcggtctctgggcagtaac	
M. lentoflavum	gtggaatgcgagatatcaggaggaacaccggtggcgaaggcggtctctgggcagtaac	
M. mucogenicum	ggaatgcgagatatcaggaggaacaccggtggcgaaggcggtctctgggcagtaactg	
M. parafinum	ggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggcggtctctg	
M. simiae	gtggaatgcgagatatcaggaggaacaccggtggcgaaggcggtctctgggcagtaac	
M. szulgai	ctggtgtagcngtggaatgcgagatatcaggaggaacaccggtggcgaaggcggtctc	
M. tuberculosis	ttcctggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggcggt	

FIGURE 2A

M. abscessus	----- <u>acatgcaagtcg</u>	51
M. avium	-----gacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. bovis	-----gcggcgctgcttaacacatgcaagtcg	
M. chelonae	-----gacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. farcinogen	-----cgaacgctcgcgggcgctgcttaacacatgcaagtcg	
M. fortuitum	-----ggcggcgctgcttaacacatgcaagtcg	
M. gordonae	-----ggcggcgctgcttaacacatgcaagtcg	
M. heckeshornense	-----tgatcctggctcaggacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. intercellulare	-----ttaacacatgcaagtng	
M. kansasii	-----gcggcgctgcttaacacatgcaagtcg	
M. kubicae	-----gtgcttaacacatgcaagtcg	
M. lentiflavum	-----ggcggcgctgcttaacacatgcaagtcg	
M. mucogenicum	-----gacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. parafinum	-----cgtgcttaacacatgcaagtcg	
M. simiae	-----ggcggcgctgcttaacacatgcaagtcg	
M. szulgai	-----ggcggcgctgcttaacacatgcaagtcg	
M. tuberculosis	-----ggcggcgctgcttaacacatgcaagtcg	

FIGURE 2B

M. abscessus	aacgggaaaggcc-cttcgg-ggtact-cgagtggcgaacgggtgagtaaacacgtgggtgat	111
M. avium	aacgggaaaggcct-cttcgggagtact-cgagtggcgaacgggtgagtaaacacgtgggcaat	
M. bovis	aacgggaaagggtct-cttcgggagatact-cgagtggcgaacgggtgagtaaacacgtgggtgat	
M. chelonae	aacgggaaaggcc-cttcgg-ggtact-cgagtggcgaacgggtgagtaaacacgtgggtgat	
M. farcinogen	aacgggaaaggcc--cttcggg-gtact-cgagtggcgaacgggtgagtaaacacgtgggtgat	
M. fortuitum	aacgggaaaggcc--cttcggg--tact-cgagtggcgaacgggtgagtaaacacgtgggtgat	
M. gordonae	aacggtaaggcc--cttcgggn-taca-cgagtggcgaacgggtgagtaaacacgtgggtaat	
M. heckeshornense	aacgggaaaggcccgttcgggtgggtgctcgagtggcgaacgggtgagtaaacacgtgggtgac	
M. intercellulare	aacgggaaagnccc-cttcg--gggtactcgagtggcgaacgggtgagtaaacacgtgggcaat	
M. kansaii	aacgggaaagggtct-cttcgggagac-actcgagtggcgaacgggtgagtaaacacgtgggcaat	
M. kubicae	aacgggaaaggccc-cttcgggggt-actcgagtggcgaacgggtgagtaaacacgtgggtgat	
M. lentoflavum	aacgggaaaggcct-cttcgggagt-actcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. mucogenicum	aacgggaaaggcc--cttcgg-ggt-actcgagtggcgaacgggtgagtaaacacgtgggtgat	
M. parafinum	aacgggaaaggccc-cttcgggggt-actcgagtggcgaacgggtgagtaaacacgtnggcaat	
M. simiae	aacgggaaaggccc-cttcgggggt-actcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. szulgai	aacgggaaagnccc-cttcgggn-t-actcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. tuberculosis	aacgggaaagggtct-cttcgggagat-actcgagtggcgaacgggtgagtaaacacgtgggtgat	

FIGURE 2C

M. abscessus	ctgccctgcactctgggataagcctgggaaactgggtctaataccggataggaccacaca	171
M. avium	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggacctcaag	
M. bovis	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacggg	
M. chelonae	ctgccctgcactctgggataagcctgggaaactgggtctaataccggataggaccacaca	
M. farcinogen	ctgccctgcactttgggataagcctgggaaactgggtctaataccggataggaccacgcg	
M. fortuitum	ctgccctgcactttgggataagcctgggaaactgggtctaataccgaatatgaccgcgca	
M. gordonae	ctgccctgcacatcgggataagcctgggaaactgggtctaataccgaataggaccacagg	
M. heckeshornense	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccgccc	
M. intercellulare	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggacctttag	
M. kansaii	ctgccctgcacaccgggataagcctgggaaactgggtctaataccggataggaccacttg	
M. kubicae	ctaccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccatgag	
M. lentoflavum	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccttttg	
M. mucogenicum	ctgccctgcactttgggataagcctgggaaactgggtctaataccgaataggaccacgcg	
M. parafinum	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacttg	
M. simiae	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacttg	
M. szulgai	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccccgag	
M. tuberculosis	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacggg	

FIGURE 2D

M. abscessus	cttcatggtgagtggtgcaaagc-tttt---gcggtgtgggatgagcccgcggcctatca	231
M. avium	acgcatgtcttctggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. bovis	atgcatgtcttgtggtngaaagcgcttt--agcggtgtgggatgagcccgcggcctatca	
M. chelonae	cttcatggtgagtggtgcaaagc-tttt---gcggtgtgggatgagcccgcggcctatca	
M. farcinogen	cttcatggtgtgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. fortuitum	cttcctggtgtgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. gordonae	acacatgtcctgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. heckeshornense	atgcatgtggtgtggtggaaagcggtgtggtagtgtgtgggatgggcccgcggcctatca	
M. intercellulare	gcgcatgtctttaggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. kansaii	gcgcatgccttgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. kubicae	atgcatgtcttatggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. lentoflavum	gcgcatgccttttgggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. mucogenicum	cttcatggtgtgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. parafinum	gcgcatgccttgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. simiae	gcgcatgccttgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. szulgai	gcgcatgccttgggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. tuberculosis	atgcatgtcttctggtggaaagcgcttt--agcggtgtgggatgagcccgcggcctatca	

FIGURE 2E

M. abscessus	gcttggtggtggggtaatggcccaccaaggcgacgacgggtagccggcctgagaggggtga	291
M. avium	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. bovis	gcttggtggtggggtnacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. chelonae	gcttggtggtggggtaatggcccaccaaggcgacgacgggtagccggcctgagaggggtga	
M. farcinogen	gcttggtggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtga	
M. fortuitum	gcttggtggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtga	
M. gordonae	gcttggtggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. heckeshornense	gcttggtggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. intercellulare	gcttggtggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. kansaii	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. kubicae	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. lentoflavum	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. mucogenicum	gcttggtggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtga	
M. parafinum	gcttggtggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. simiae	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. szulgai	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. tuberculosis	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgaga-ggtgt	

FIGURE 2F

M. abscessus	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	351
M. avium	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. bovis	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. chelonae	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. farcinogen	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. fortuitum	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. gordonae	ccggccacactgggactgagatacggcccagactnctacgggaggcagcagtggggaata	
M. heckeshornense	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. intercellulare	ccggccacactgggactgagatacggcccagactnctacgggaggcagcagtggggaata	
M. kansaii	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. kubicae	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. lentoflavum	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. mucogenicum	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. parafinum	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. simiae	ccggccacactgggactgagatacggcccagactnctacgggaggcagcagtggggaata	
M. szulgai	ccggccacactgggactgagatacggcccagactcntacgggaggcagcagtggggaata	
M. tuberculosis	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	

FIGURE 2G

M. abscessus	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgaggggatgacggccttcgggt	411
M. avium	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. bovis	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggcctt-gggt	
M. chelonae	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgaggggatgacggccttcgggt	
M. farcinogen	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgaggggatgacggccttcgggt	
M. fortuitum	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgaggggatgacggccttcgggt	
M. gordonae	ttgcacaatgggcgaaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. heckeshornense	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. intercellulare	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. kansaii	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. kubicae	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. lentoflavum	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. mucogenicum	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgaggggatgacggccttcgggt	
M. parafinum	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. simiae	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. szulgai	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. tuberculosis	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	

FIGURE 2H

M. abscessus	tgtaaacctctttcagtagggacgaagcgaaagtgacggtacctacagaagaaggaccgg	471
M. avium	tgtaaacctctttcaccatcgacgaaggtccgggttttctcggattgacggtaggtggag	
M. bovis	tgtaaacctctttcaccatcgacgaaggtccgggttctctcggattgacggtaggtggag	
M. chelonae	tgtaaacctctttcagtagggacgaagcgaaagtgacggtacctacagaagaaggaccgg	
M. farcinogen	tgtaaacctctttcaatagggacgaagcgcaagtgacggtacctatagaagaaggaccgg	
M. fortuitum	tgtaaacctctttcaatagggacgaagcgcaagtgacggtacctatagaagaaggaccgg	
M. gordonae	tgtaaacctctttcaccatcgacgaaggtccgggttttctcgggctgacggtaggtggag	
M. heckeshornense	tgtaaacctctttcaccatcgacgaagccgcagcttttgttgtggtgacggtaggtggag	
M. intercellulare	tgtaaacctctttcaccatcgacgaaggtccgggttttctcggattgacggtaggtggag	
M. kansaii	tgtaaacctctttcaccatcgacgaaggtccgggttctctcggattgacggtaggtggag	
M. kubicae	tgtaaacctctttcagcagggacgaagcgcaagtgacggtacctgcagaagaagcaccgg	
M. lentoflavum	tgtaaacctctttcagcagggacgaagcgcaagtgacggtacctgcagaagaagcaccgg	
M. mucogenicum	tgtaaacctctttcaatagggacgaagcgcaagtgacggtacctatagaagaagcaccgg	
M. parafinum	tgtaaacctctttcaccatcgacgaaggctcacttcgtgagttgacggtaggtggagaag	
M. simiae	tgtaaacctctttcagcagggacgaagcgcaagtgacggtacctgcagaagaagcaccgg	
M. szulgai	tgtaaacctctttcaccatcgacgaaggtccgggttttctcggattgacggtaggtggag	
M. tuberculosis	tgtaaacctctttcaccatcgacgaaggtccgggttctctcggattgacggtaggtggag	

FIGURE 2I

M. abscessus	-----ccaactacgtgccagcagccgcggttaatacgtagggtccgagcgttgt	531
M. avium	aag---caccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. bovis	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. chelonae	-----ccaactacgtgccagcagccgcggttaatacgtagggtccgagcgttgt	
M. farcinogen	-----ccaactacgtgccagcagccgcggttaatacgtagggtccgagcgttgt	
M. fortuitum	-----ccaactacgtgccagcagccgcggttaatacgtagggtccgagcgttgt	
M. gordonae	aagaagcaccggccaactacgtgccagcagccgcgntaatacgtagggtgcgagcgttgt	
M. heckeshornense	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcaagcgttgt	
M. intercellulare	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. kansaii	aagaagcaccggccaactacgtgccagcagccgcgntaatacgtagggtgcgagcgttgt	
M. kubicae	-----ccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. lentoflavum	-----ccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. mucogenicum	-----ccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. parafinum	aag---caccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. simiae	-----ccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. szulgai	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. tuberculosis	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	

FIGURE 2J

M. abscessus	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaactca	591
M. avium	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. bovis	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. chelonae	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaactca	
M. farcinogen	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaactca	
M. fortuitum	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaactca	
M. gordonae	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. heckeshornense	ccggaattactgggcgtaaagagctcgtaggcggccttgcgcggtgttcgtggaatgccca	
M. intercellulare	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. kansaii	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. kubicae	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaaccgg	
M. lentoflavum	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaaccgg	
M. mucogenicum	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaactca	
M. parafinum	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. simiae	cnggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaaccgg	
M. szulgai	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. tuberculosis	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	

FIGURE 1K

Strain	Sequence	Position
M. abscessus	tgcgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	651
M. avium	ttaactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaatt	
M. bovis	gcttaactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaa	
M. chelonae	tgcgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. farcinogen	gcgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. fortuitum	cgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. gordonae	aactgtgagcgtgcggncgatacgggcagacttgagtactgcaggggagactggaattcc	
M. heckeshornense	cacagcttaactgtgggcgtgcgggcgatacgggcaggctggagtgtgcaggggagact	
M. intercellulare	taactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaattc	
M. kansaii	ttaactgtgagcgtgcggncgatacgggcagactagagtactgcaggggagactggaatt	
M. kubicae	gtgcgggcgatacgggcagactggagtactgcaggggagactggaattcctggtgtagcg	
M. lentoflavum	gtgcgggcgatacgggcagactggagtactgcaggggagactggaattcctggtgtagcg	
M. mucogenicum	gcgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. parafinum	actgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaattcct	
M. simiae	gtgcgggcgatacgggcagactggagtactgcaggggagactggaattcctggtgtagcg	
M. szulgai	taactgtgagcgtgcggncgatacgggcagactggagtactgcaggggagactggaattc	
M. tuberculosis	gcttaactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaa	

FIGURE 2L

M. abscessus	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	711
M. avium	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. bovis	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtgncgaaggcgg	
M. chelonae	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. farcinogen	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. fortuitum	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. gordonae	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. heckeshornense	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. intercellulare	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. kansaii	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. kubicae	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. lentoflavum	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggt-----	
M. mucogenicum	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. parafinum	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. simiae	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. szulgai	aattcctggtgtagcngtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. tuberculosis	aattcctggtgtagcggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	

Figure 3 A

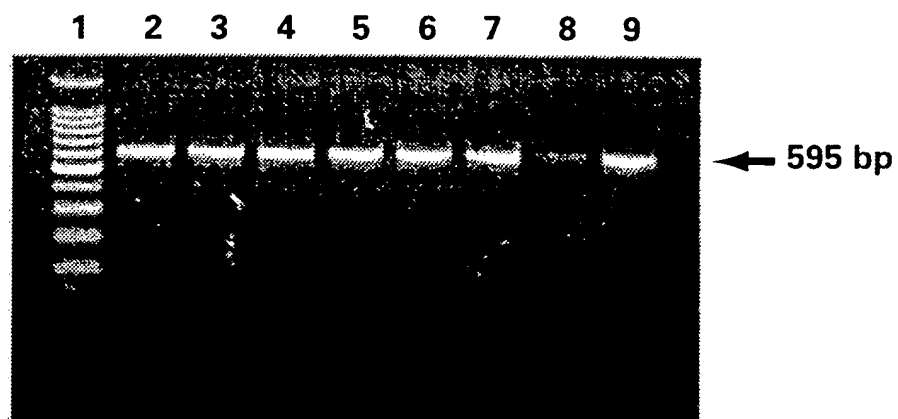


Figure 3 B

